

WHAT IS CLAIMED IS:

1. A fan guard to be mounted beside a rotor device of a fan for supporting said rotor device and supercharging said fan, comprising:  
a main frame; and  
5 a set of guard blades radially arranged inside said main frame and fixed onto an inner surface of said main frame by each one end thereof;  
wherein said guard blades have a shape substantially identical to that of said rotor blades.
2. The fan guard according to claim 1 wherein said guard blades are arranged downstream of said rotor blades.
- 10 3. The fan guard according to claim 2 further comprising another frame and another set of guard blades arranged upstream of said rotor blades.
4. The fan guard according to claim 1 wherein said guard blades are arranged upstream of said rotor blades.
- 15 5. The fan guard according to claim 1 wherein a count of said guard blades is about 1~2 times of that of said rotor blades.
6. The fan guard according to claim 1 wherein said guard blades are made of a plastic.
- 20 7. The fan guard according to claim 1 wherein said guard blades are made of a metal.
8. The fan guard according to claim 1 further comprising a motor holder for receiving therein a motor used for driving said rotor blades to revolve.
- 25 9. The fan guard according to claim 8 wherein said motor holder is a hollow cylinder substantially located at the center of said main frame, and fixed thereonto each the other end of said guard blades.

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rotor blades to guide air into said rotor device at an angle so as to make an air inflow to said rotor device have an additional tangential velocity, and thus enhance the work of said rotor blades on air.

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17. The fan guard according to claim 13 further comprising a motor holder which is a hollow cylinder substantially located at the center of said main frame, and fixed thereonto each the other end of said guard blades for receiving therein a motor used for driving said rotor blades to revolve.
18. The fan guard according to claim 13 further comprising at least one reinforcing ring connecting all of said guard blades for strengthening said fan guard.
19. The fan guard according to claim 13 wherein said guard blades are made of a material selected from a group consisting of a plastic and a metal.
20. A fan guard to be mounted beside a rotor device of a fan for supporting said rotor device and supercharging said fan, comprising:  
a main frame; and  
a set of guard blades radially arranged inside said main frame and fixed onto an inner surface of said main frame by each one end thereof;  
wherein said guard blades are arranged upstream of said rotor blades, and have a shape and an arrangement relative to said rotor blades allowing air to be guided into said rotor device at an angle to make an air inflow to said rotor device have an additional tangential velocity, thereby enhancing the work of said rotor blades on air.
21. The fan guard according to claim 20 wherein said shape of said guard blades is substantially identical to that of said rotor blades.
22. The fan guard according to claim 21 wherein said arrangement of

5 said guard blades relative to said rotor blades allows one of said guard blades and one of said rotor blades constitute a near letter C configuration in a cross-sectional view at a moment that a leading point of said guard blade aligned with a trailing point of said rotor blade in an axial direction.

23. The fan guard according to claim 20 further comprising another frame and another set of guard blades arranged downstream of said rotor blades to transform a tangential velocity of an air outflow from said rotor device into a static pressure.

10 24. The fan guard according to claim 20 further comprising a motor holder which is a hollow cylinder substantially located at the center of said main frame, and fixed thereonto each the other end of said guard blades for receiving therein a motor used for driving said rotor blades to revolve.

15 25. The fan guard according to claim 20 further comprising at least one reinforcing ring connecting all of said guard blades for strengthening said fan guard.

20 26. The fan guard according to claim 20 wherein said guard blades are made of a material selected from a group consisting of a plastic and a metal.